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IEE CNF	IEE Conference Proceeding
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1 Research papers: adaptive, automatic, autonomic systems: AGILE: adaptive indexing ◼
      for context-aware information filters
      Jens-Peter Dittrich, Peter M. Fischer, Donald Kossmann
      June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on
      Management of data SIGMOD '05**
      Publisher: ACM Press
      Full text available: 📄 pdf(630.32 KB)   Additional Information: full citation, abstract, references, citings

      Information filtering has become a key technology for modern information systems. The
      goal of an information filter is to route messages to the right recipients (possibly none)
      according to declarative rules called profiles. In order to deal with high volumes of
      messages, several index structures have been proposed in the past. The challenge
      addressed in this paper is to carry out *stateful* information filtering in which profiles refer
      to values in a database or to previous messages. The d ...

2 Web technologies and applications (WTA): Context-aware filtering for collaborative ◼
      web systems: adapting the awareness information to the user's context
      Manuele Kirsch-Pinheiro, Marlène Villanova-Oliver, Jérôme Gensel, Hervé Martin
      March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
      Publisher: ACM Press
      Full text available: 📄 pdf(252.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

      We propose a context-based filtering process which aims at adapting the awareness
      information delivered to mobile users by collaborative web systems. This filtering process
      relies on a model of context which integrates both a physical and an organizational
      dimensions and allows to represent the user's current context as well as *general profiles*.
      These profiles are descriptions of user's potential contexts and express the awareness
      information filtering rules to apply when the user's curre ...

      Keywords: awareness support, collaborative web systems, context-aware computing,
      user adaptation

3 Context-aware Retrieval: Exploring a New Environment for Information Retrieval and ◼
      Information Filtering
      P. J. Brown, G. J. F. Jones
      January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 4
      Publisher: Springer-Verlag
      Full text available: 📄 pdf(112.84 KB)   Additional Information: full citation, abstract, citings, index terms

      The opportunities for context-aware computing are fast expanding. Computing systems

can be made aware of their environment by monitoring attributes such as their current location, the current time, the weather, or nearby equipment and users. Context-aware computing often involves retrieval of information: it introduces a new aspect to technologies for information delivery; currently these technologies are based mainly on contemporary approaches to information retrieval and information filtering. ...

4   Context-sensitive filtering for browsing in hypertext
Tsukasa Hirashima, Noriyuki Matsuda, Toyohiro Nomoto, Jun'ichi Toyoda
January 1998 **Proceedings of the 3rd international conference on Intelligent user
                interfaces IUI '98**
Publisher: ACM Press
Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms

    Keywords: context-sensitive, hypertext browsing, information filtering

**5   Doctoral consortium: Context-aware collaborative filtering system: predicting the
user's preferences in ubiquitous computing**
Annie Chen
April 2005 **CHI '05 extended abstracts on Human factors in computing systems CHI
                '05**
Publisher: ACM Press
Full text available: pdf(67.12 KB)   Additional Information: full citation, abstract, references, index terms

    In this paper I propose a context-aware collaborative filtering system that can predict a
    user's preference in different context situations based on past user-experiences. The
    system uses what other like-minded users have done in similar context to predict a user's
    preference towards an item in the current context.

    Keywords: collaborative filtering, context-aware, recommendation system, ubiquitous
    computing

6   Context sensitivity in role-based access control
Arun Kumar, Neeran Karnik, Girish Chafle
July 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 3
Publisher: ACM Press
Full text available: pdf(886.37 KB)   Additional Information: full citation, abstract, references, citings

    This paper describes an extended role-based access control (RBAC) model, which makes
    RBAC sensitive to the *context* of an attempted operation. Traditional RBAC does not
    specify whether the permissions associated with a role enable access to a *particular*
    object, or to some *subset* of objects belonging to a class. We extend the model by
    introducing the notions of role context and context filters. Context filters are Boolean
    expressions based on the context of the user attempting ...

7   A blackboard-based architecture for filtering new software features
Masashi Uyama
December 1993 **Proceedings of the conference on Organizational computing systems
                COCS '93**
Publisher: ACM Press
Full text available: pdf(946.32 KB)   Additional Information: full citation, references, citings, index terms

    Keywords: context sensitivity, information filtering, intelligent assistance, modifiability,
    organizational memory, task model, trialability

8 <u>Evaluating collaborative filtering recommender systems</u>

Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl
January 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 1

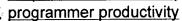**Publisher:** ACM Press

Full text available: <u>pdf(253.92 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Recommender systems have been evaluated in many, often incomparable, ways. In this article, we review the key decisions in evaluating collaborative filtering recommender systems: the user tasks being evaluated, the types of analysis and datasets being used, the ways in which prediction quality is measured, the evaluation of prediction attributes other than quality, and the user-based evaluation of the system as a whole. In addition to reviewing the evaluation strategies used by prior researchers ...

Keywords: Collaborative filtering, evaluation, metrics, recommender systems

9 <u>Empirical methods and program understanding: Using task context to improve programmer productivity</u>

Mik Kersten, Gail C. Murphy
November 2006 **Proceedings of the 14th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '06/FSE-14**

Publisher: ACM Press

Full text available: <u>pdf(512.26 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

When working on a large software system, a programmer typically spends an inordinate amount of time sifting through thousands of artifacts to find just the subset of information needed to complete an assigned task. All too often, before completing the task the programmer must switch to working on a different task. These task switches waste time as the programmer must repeatedly find and identify the information relevant to the task-at-hand. In this paper, we present a mechanism that captures, mo ...

Keywords: IDE, degree-of-interest, interaction history, program views, task management

10 <u>Refinement-based context-sensitive points-to analysis for Java</u>

Manu Sridharan, Rastislav Bodík
June 2006 **ACM SIGPLAN Notices , Proceedings of the 2006 ACM SIGPLAN conference on Programming language design and implementation PLDI '06**, Volume 41 Issue 6

Publisher: ACM Press

Full text available: <u>pdf(311.54 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We present a scalable and precise context-sensitive points-to analysis with three key properties: (1) filtering out of unrealizable paths, (2) a context-sensitive heap abstraction, and (3) a context-sensitive call graph. Previous work [21] has shown that all three properties are important for precisely analyzing large programs, e.g., to show safety of downcasts. Existing analyses typically give up one or more of the properties for scalability. We have developed a refinement-based analysis that s ...

Keywords: context-sensitive analysis, demand-driven analysis, points-to analysis, refinement

11 <u>Cloning-based context-sensitive pointer alias analysis using binary decision diagrams</u>

John Whaley, Monica S. Lam
June 2004 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation PLDI '04**, Volume 39 Issue 6

Publisher: ACM Press

Full text available: pdf(277.87 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents the first scalable context-sensitive, inclusion-based pointer alias analysis for Java programs. Our approach to context sensitivity is to create a clone of a method for every context of interest, and run a *context-insensitive* algorithm over the expanded call graph to get *context-sensitive* results. For precision, we generate a clone for every acyclic path through a program's call graph, treating methods in a strongly connected component as a single node. Normally ...

Keywords: Datalog, Java, binary decision diagrams, cloning, context-sensitive, inclusion-based, logic programming, pointer analysis, program analysis, scalable

12 Adding filtering to geometric distortion to visualize a clustered graph on small screens

Wanchun Li, Masahiro Takatsuka
January 2004 **Proceedings of the 2004 Australasian symposium on Information Visualisation - Volume 35 APVis '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(313.82 KB)   Additional Information: full citation, abstract, references, index terms

Presenting large amounts of information in a limited screen space is a significant challenge in the field of Information Visualization. With the rapid development and growing use of small handheld devices such as PDAs this issue has become more important. Many Focus+Context techniques have been developed to address it but very few of them would effectively aid visualization applications for small handheld devices.In this paper we propose a new approach for visualizing a clustered graph by adding ...

Keywords: Focus+Context, PDA, clustered graph, fisheye, graph visualization, small screen display

13 Collecting user access patterns for building user profiles and collaborative filtering

Ahmad M. Ahmad Wasfi
December 1998 **Proceedings of the 4th international conference on Intelligent user interfaces IUI '99**
Publisher: ACM Press
Full text available: pdf(1.29 MB)   Additional Information: full citation, references, citings, index terms

Keywords: autonomous agent, classical information theory, collaborative filtering, content-based filtering, finite context-model

14 The packer filter: an efficient mechanism for user-level network code

J. Mogul, R. Rashid, M. Accetta
November 1987 **ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles SOSP '87**, Volume 21
Issue 5
Publisher: ACM Press
Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings, index terms

Code to implement network protocols can be either inside the kernel of an operating system or in user-level processes. Kernel-resident code is hard to develop, debug, and maintain, but user-level implementations typically incur significant overhead and perform poorly.The performance of user-level network code depends on the mechanism used to demultiplex received packets. Demultiplexing in a user-level process increases the rate of context switches and system calls, resulting in p ...

15 The movable filter as a user interface tool

Maureen C. Stone, Ken Fishkin, Eric A. Bier
April 1994 **Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence CHI '94**
Publisher: ACM Press
Full text available: pdf(986.82 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: editing, graphics, lens, macro, transparent, viewing filter, visualization

16 <u>Network layer access control for context-aware IPv6 applications</u>
Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: <u>pdf(3.57 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture utilises packet marking and network level packet ...

Keywords: authentication, mobile IPv6, public access point, security, wireless Internet

17 <u>Information filtering and information retrieval: two sides of the same coin?</u>
Nicholas J. Belkin, W. Bruce Croft
December 1992 **Communications of the ACM**, Volume 35 Issue 12
Publisher: ACM Press
Full text available: <u>pdf(3.58 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Keywords: information filtering, information retrieval

18 <u>A comparison of rule-invocation strategies in context-free chart parsing</u>
Mats Wirén
April 1987 **Proceedings of the third conference on European chapter of the Association for Computational Linguistics**
Publisher: Association for Computational Linguistics
Full text available: <u>pdf(685.21 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>
<u>Publisher Site</u>

Currently several grammatical formalisms converge towards being declarative and towards utilizing context-free phrase-structure grammar as a back-bone, e.g. LFG and PATR-II. Typically the processing of these formalisms is organized within a chart-parsing framework. The declarative character of the formalisms makes it important to decide upon an overall optimal control strategy on the part of the processor. In particular, this brings the rule-invocation strategy into critical focus: to gain maxim ...

19 <u>Undecidability of context-sensitive data-independence analysis</u>
Thomas Reps
January 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 1
Publisher: ACM Press
Full text available: <u>pdf(228.77 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

terms

A number of program-analysis problems can be tackled by transforming them into certain kinds of graph-reachability problems in labeled directed graphs. The edge labels can be used to filter out paths that are not interest: a path P from vertex s to vertex t only counts as a "valid connection" between s and t if the word spelled out by P is in a certain language. Often the languag ...

Keywords: ∞ , context-sensitive program-analysis, control-flow analysis, dependence analysis, graph-reachability problem, linear matche-parenthesis language, set constraints, set-based analysis, structure-transmitted data-dependence

20 Filter-based model checking of partial systems

Matthew B. Dwyer, Corina S. Pasareanu
November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '98/FSE-6**, Volume 23 Issue 6

Publisher: ACM Press

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references, citings, index terms

Recent years have seen dramatic growth in the application of model checking techniques to the validation and verification of correctness properties of hardware, and more recently software, systems. Most of this work has been aimed at reasoning about properties of complete systems. This paper describes an automatable approach for building finite-state models of partially defined software systems that are amenable to model checking using existing tools. It enables the application of existing model ...

Keywords: assume-guarantee reasoning, filter-based analysis, model checking, software verification and validation

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21 The use of dynamic contexts to improve casual internet searching   ▬
Gondy Leroy, Ann M. Lally, Hsinchun Chen
July 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3
Publisher: ACM Press
Full text available: 🗎 pdf(231.61 KB) . Additional Information: full citation, abstract, references, index terms

Research has shown that most users' online information searches are suboptimal. Query optimization based on a relevance feedback or genetic algorithm using dynamic query contexts can help casual users search the Internet. These algorithms can draw on implicit user feedback based on the surrounding links and text in a search engine result set to expand user queries with a variable number of keywords in two manners. Positive expansion adds terms to a user's keywords with a Boolean "and," negative ...

Keywords: Information retrieval, Internet, automatic query expansion, genetic algorithm, implicit user feedback, personalization, relevance feedback

22 Incremental relevance feedback for information filtering   ▬
James Allan
August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '96**
Publisher: ACM Press
Full text available: 🗎 pdf(892.54 KB)   Additional Information: full citation, references, citings, index terms

23 Personal information management: Fast, flexible filtering with phlat   ▬
Edward Cutrell, Daniel Robbins, Susan Dumais, Raman Sarin
April 2006 **Proceedings of the SIGCHI conference on Human Factors in computing systems CHI '06**
Publisher: ACM Press
Full text available: 🗎 pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms

Systems for fast search of personal information are rapidly becoming ubiquitous. Such systems promise to dramatically improve personal information management, yet most are modeled on Web search in which users know very little about the content that they are searching. We describe the design and deployment of a system called Phlat that optimizes search for personal information with an intuitive interface that merges search and browsing through a variety of associative and contextual cues. In addi ...

Keywords: PIM, interactive information retrieval, personal information management, search interface, tagging, user interfaces

24 Empirical evaluation of testing: An empirical evaluation of test case filtering techniques based on exercising complex information flows

David Leon, Wes Masri, Andy Podgurski

May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(132.08 KB)   Additional Information: full citation, abstract, references, citings, index terms
Publisher Site

Some software defects trigger failures only when certain complex information flows occur within the software. Profiling and analyzing such flows therefore provides a potentially important basis for filtering test cases. We report the results of an empirical evaluation of several test case filtering techniques that are based on exercising complex information flows. Both coverage-based and profile-distribution-based filtering techniques are considered. They are compared to filtering techniques bas ...

Keywords: dynamic information flow analysis, dynamic slicing, observation-based testing, program dependences, software testing, test case filtering

25 Special topic section on peer to peer data management: In-context peer-to-peer information filtering on the Web

Aris M. Ouksel

September 2003 **ACM SIGMOD Record**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(99.39 KB)   Additional Information: full citation, references

26 New search paradigms: Searching with context

Reiner Kraft, Chi Chao Chang, Farzin Maghoul, Ravi Kumar

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(191.91 KB)   Additional Information: full citation, abstract, references, index terms

Contextual search refers to proactively capturing the information need of a user by automatically augmenting the user query with information extracted from the search context; for example, by using terms from the web page the user is currently browsing or a file the user is currently editing.We present three different algorithms to implement contextual search for the Web. The first, *it query rewriting (QR)*, augments each query with appropriate terms from the search context and uses an off ...

Keywords: contextual search, meta-search, rank aggregation, specialized search engines, web search

27 AAA, security and privacy: Context-aware privacy protection with profile management

Anelia Mitseva, Mohamad Imine, Neeli R. Prasad

September 2006 **Proceedings of the 4th international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '06**

Publisher: ACM Press

Full text available: pdf(472.85 KB)   Additional Information: full citation, abstract, references, index terms

Hotspot services will be offered in small, highly-populated public places like airports, hospitals, etc. They will play their assistive roles in the people's life only if they are secure, trusted, and nonobtrusive. Some of the challenges faced are the seamless operation

between WLAN-based hotspots and other emerging wireless data networks technologies, for example body sensor networks; the exploitation of context- and location-aware information provided from the hotspot service; matching the use ...

Keywords: adaptive privacy protection, context-awareness, hotspots, location-awareness, personalization, secure profile management, smart spaces, user data minimization, wireless sensor networks

28 Context-sensitive electronic dictionaries

Gábor Prószéky, Balázs Kis

August 2002 **Proceedings of the 19th international conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(64.18 KB)   Additional Information: full citation, abstract, references

This paper introduces a context-sensitive electronic dictionary that provides translations for any piece of text displayed on a computer screen, without requiring user interaction. This is achieved through a process of three phases: text acquisition from the screen, morpho-syntactic analysis of the context of the selected word, and the dictionary lookup. As with other similar tools available, this program usually works with dictionaries adapted from one or more printed dictionaries. To implement ...

29 Applying associative retrieval techniques to alleviate the sparsity problem in collaborative filtering

Zan Huang, Hsinchun Chen, Daniel Zeng

January 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(173.30 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recommender systems are being widely applied in many application settings to suggest products, services, and information items to potential consumers. Collaborative filtering, the most successful recommendation approach, makes recommendations based on past transactions and feedback from consumers sharing similar interests. A major problem limiting the usefulness of collaborative filtering is the sparsity problem, which refers to a situation in which transactional or feedback data is sparse and i ...

Keywords: Recommender system, associative retrieval, collaborative filtering, sparsity problem, spreading activation

30 Information access and retrieval: Exploiting contextual change in context-aware retrieval

Peter J. Brown, Gareth J. F. Jones

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

Full text available: pdf(737.18 KB)   Additional Information: full citation, abstract, references, citings, index terms

Information retrieval systems are usually unaware of the context in which they are being used. We believe that exploiting context information to augment existing retrieval methods can lead to increased retrieval precision. This approach is particularly important with the development of wireless mobile information appliances, such as PDAs. Many of these devices are aware of the user's physical context, and this has led to the evolution of *context-aware applications*. Such applications can a ...

31 A three-step filtering mechanism

Masashi Uyama

May 1995 **Conference companion on Human factors in computing systems CHI '95**

Publisher: ACM Press

Full text available: 📄 pdf(195.31 KB) Additional Information: full citation, references, index terms

32 Publish/subscribe middleware and models: Uncertain event-based model for egocentric context sensing

Mauro Caporuscio, Paola Inverardi

September 2005 **Proceedings of the 5th international workshop on Software engineering and middleware SEM '05**

Publisher: ACM Press

Full text available: 📄 pdf(382.22 KB) Additional Information: full citation, abstract, references

Calm Technology characterizes those technologies that move forth and back between the *center* and *periphery* of our attention. That is, while *center* denotes what one is currently focused on, *periphery* denotes what one is attuned to without focusing on it explicitly. Context-aware computing exploits such a concept by allowing applications to adapt their behavior (i.e. the center) in response to the context sensed within the environment (i.e. the periphery). An app ...

33 Context-aware communication for severely disabled users

Adriane B. Davis, Melody M. Moore, Veda C. Storey

June 2002 **ACM SIGCAPH Computers and the Physically Handicapped , Proceedings of the 2003 conference on Universal usability CUU '03**, Issue 73-74

Publisher: ACM Press

Full text available: 📄 pdf(201.82 KB) Additional Information: full citation, abstract, references, index terms

Even with assistive communication technology, interactive conversation is extremely difficult for users with severely limited mobility and loss of speech. Input to such devices is painfully slow and subject to high error rates with the resulting output not reliably reflecting the true intentions of the user. Conversational prediction has been incorporated into assistive systems to help speed up communication but could be further improved by considering the contextual interaction between the user ...

Keywords: augmentative and assistive communication devices, context-aware devices, conversational prediction, user profiling

34 Path sharing and predicate evaluation for high-performance XML filtering

Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: 📄 pdf(543.40 KB) Additional Information: full citation, abstract, references, citings, index terms

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

35 Data exploration across temporal contexts

Mark Derthick, Steven F. Roth

January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces IUI '00**

Publisher: ACM Press

Full text available: 📄 pdf(1.48 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The ability to quickly explore and compare multiple scenarios is an important component of exploratory data analysis. Yet today's interfaces cannot represent alternative exploration paths as a branching history, forcing the user to recognize conceptual branch points in a linear history. Further, the interface can only show information from one state at a time, forcing the user to use her memory to compare scenarios. Our system includes a tree-structured visualization for navigati ...

Keywords: context, exploratory data analysis, undo

36 <u>InfoRadar: group and public messaging in the mobile context</u>   ▭

Matti Rantanen, Antti Oulasvirta, Jan Blom, Sauli Tiitta, Martti Mäntylä
October 2004 **Proceedings of the third Nordic conference on Human-computer interaction NordiCHI '04**
Publisher: ACM Press

Full text available: 📄 <u>pdf(550.09 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Previous research has sought to utilize everyday messaging metaphors, such as the notice board, in location-based messaging systems. Unfortunately, many of the restrictions associated with the metaphors have been unnecessarily reintroduced to interaction, and results from the previous field trials have been disheartening. InfoRadar builds on experiences with these systems by presenting improvements in user interface functionality and services. By providing a novel radar interface for accessin ...

Keywords: context-aware computing, location-based messaging, mobile computing

37 <u>Flexible team-based access control using contexts</u>   ▭

Christos K. Georgiadis, Ioannis Mavridis, George Pangalos, Roshan K. Thomas
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**
Publisher: ACM Press

Full text available: 📄 <u>pdf(186.36 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We discuss the integration of contextual information with team-based access control. The TMAC model was formulated by Thomas in [1] to provide access control for collaborative activity best accomplished by teams of users. In TMAC, access control revolves around teams, where a "team" is an abstraction that encapsulates a collection of users in specific roles and collaborating with the objective of accomplishing a specific task or goal. Users who belong to a team are given access to resources ...

Keywords: access control, active security, contexts, teams

38 <u>Information access for context-aware appliances (poster session)</u>   ▭

Gareth J. F. Jones, Peter J. Brown
July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '00**
Publisher: ACM Press

Full text available: 📄 <u>pdf(310.36 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The emergence of networked context-aware mobile computing appliances potentially offers opportunities for remote access to huge online information resources. Information access in context-aware information appliances can utilize existing techniques developed for effective information retrieval and information filtering; however, practical physical and operational features of these devices and the availability of context information itself

suggest that the document selection process should mak ...

39 Using frequency-of-mention in public conversations for social filtering

Will Hill, Loren Terveen

November 1996 **Proceedings of the 1996 ACM conference on Computer supported
cooperative work CSCW '96**

Publisher: ACM Press

Full text available: pdf(818.10 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Usenet, World Wide Web, browsing, collaborative filtering, computer-supported cooperative work, human interface, human-computer interaction, netnews, organizational computing, resource discovery, social filtering

40 Beyond document similarity: understanding value-based search and browsing
technologies

Andreas Paepcke, Hector Garcia-Molina, Gerard Rodriguez-Mula, Junghoo Cho

March 2000 **ACM SIGMOD Record**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.29 MB)   Additional Information: full citation, abstract, citings, index terms

In the face of small, one or two word queries, high volumes of diverse documents on the Web are overwhelming search and ranking technologies that are based on document similarity measures. The increase of multimedia data within documents sharply exacerbates the shortcomings of these approaches. Recently, research prototypes and commercial experiments have added techniques that augment similarity-based search and ranking. These techniques rely on judgments about the 'value' of documents. Jud ...

Keywords: World-Wide Web, collaborative filtering, hypertext, information filters, information retrieval, links, metadata, ranking, relevance, search engines

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41 Implicit context: easing software evolution and reuse   ▄

Robert J. Walker, Gail C. Murphy
November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th
ACM SIGSOFT international symposium on Foundations of software
engineering: twenty-first century applications SIGSOFT '00/FSE-8,**
Volume 25 Issue 6

Publisher: ACM Press

Full text available: 📄 pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index
terms

Software systems should consist of simple, conceptually clean software components
interacting along narrow, well-defined paths. All too often, this is not reality: complex
components end up interacting for reasons unrelated to the functionality they provide. We
refer to knowledge within a component that is not conceptually required for the individual
behaviour of that component as extraneous embedded knowledge (EEK). EEK creeps into
a system in many forms, including dependences upon particula ...

Keywords: EEK, call history, contextual dispatch, extraneous embedded knowledge,
flexibility, implicit context, structure

42 Hardware-Based Nonlinear Filtering and Segmentation using High-Level Shading   ▄
Languages
Ivan Viola, Armin Kanitsar, Meister Eduard Groller
October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(11.33 MB)   Additional Information: full citation, abstract

Non-linear filtering is an important task for volume analysis.This paper presents hardware-
based implementations of various non-linear filters for volume smoothing with edge
preservation.TheCg high-level shading language is used in combination with latest PC
consumer graphics hardware.Filtering is divided into pervertex and per-fragment stages.In
both stages we propose techniques to increase the filtering performance.The vertex
program pre-computes texture coordinates in order to address all con ...

Keywords: Non-linear Filtering, Segmentation, Hardware Acceleration

43 Improving the effectiveness of information retrieval with local context analysis   ▄
Jinxi Xu, W. Bruce Croft
January 2000 **ACM Transactions on Information Systems (TOIS),** Volume 18 Issue 1
Publisher: ACM Press

Full text available: pdf(193.02 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Techniques for automatic query expansion have been extensively studied in information research as a means of addressing the word mismatch between queries and documents. These techniques can be categorized as either global or local. While global techniques rely on analysis of a whole collection to discover word relationships, local techniques emphasize analysis of the top-ranked documents retrieved for a query. While local techniques have shown to be more effective that global techniques in ...

Keywords: cooccurrence, document analysis, feedback, global techniques, information retrieval, local context analysis, local techniques

44 Incorporating context information for the extraction of terms

Katerina T. Frantzi

July 1997 **Proceedings of the 35th annual meeting on Association for Computational Linguistics , Proceedings of the eighth conference on European chapter of the Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(262.44 KB)
                                            Additional Information: full citation, abstract, references
Publisher Site

The information used for the extraction of terms can be considered as rather 'internal', i.e. coming from the candidate string itself. This paper presents the incorporation of 'external' information derived from the context of the candidate string. It is embedded to the *C-value* approach for automatic term recognition (ATR), in the form of weights constructed from statistical characteristics of the context words of the candidate string.

45 Poster paper sessions: A semantic web environment for context-aware m-commerce

Norman M. Sadeh, Ting-Chak Chan, Linh Van, OhByung Kwon, Kazuaki Takizawa

June 2003 **Proceedings of the 4th ACM conference on Electronic commerce EC '03**

Publisher: ACM Press

Full text available: pdf(146.80 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we introduce MyCampus, a Semantic Web environment for context-aware mobile services, which we are in the process of developing and validating on Carnegie Mellon University's campus. The environment revolves around a growing collection of customizable agents capable of (semi-) automatically discovering and accessing user personal resources (e.g. calendar, location tracking functionality, food preferences) and Web services as they assist their users in carrying out different tasks s ...

Keywords: mobile internet services, semantic web services

46 Object tracking: A survey

Alper Yilmaz, Omar Javed, Mubarak Shah

December 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 4

Publisher: ACM Press

Full text available: pdf(2.60 MB)   Additional Information: full citation, abstract, references, index terms

The goal of this article is to review the state-of-the-art tracking methods, classify them into different categories, and identify new trends. Object tracking, in general, is a challenging problem. Difficulties in tracking objects can arise due to abrupt object motion, changing appearance patterns of both the object and the scene, nonrigid object structures, object-to-object and object-to-scene occlusions, and camera motion. Tracking is usually performed in the context of higher-level applicatio ...

Keywords: Appearance models, contour evolution, feature selection, object detection, object representation, point tracking, shape tracking

47 Static checking of system behaviors using derived component assumptions

Paola Inverardi, Alexander L. Wolf, Daniel Yankelevich

July 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM),**
Volume 9 Issue 3

Publisher: ACM Press

Full text available: pdf(600.26 KB)   Additional Information: full citation, abstract, references, citings, index terms

A critical challenge faced by the developer of a software system is to understand whether the system's components correctly integrate. While type theory has provided substantial help in detecting and preventing errors in mismatched static properties, much work remains in the area of dynamics. In particular, components make assumptions about their behavioral interaction with other components, but currently we have only limited ways in which to state those assumptions and to analyze those as ...

Keywords: assumptions, chemical abstract machine model, component-based systems, static analysis

48 Comparison between CFG filtering techniques for LTAG and HPSG

Naoki Yoshinaga, Kentaro Torisawa, Jun'ichi Tsujii

July 2003 **Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 2 ACL '03**

Publisher: Association for Computational Linguistics

Full text available: pdf(63.40 KB)   Additional Information: full citation, abstract, references

An empirical comparison of CFG filtering techniques for LTAG and HPSG is presented. We demonstrate that an approximation of HPSG produces a more effective CFG filter than that of LTAG. We also investigate the reason for that difference.

49 The adaptive web: The role of adaptive hypermedia in a context-aware tourist GUIDE

Keith Cheverst, Keith Mitchell, Nigel Davies

May 2002 **Communications of the ACM,** Volume 45 Issue 5

Publisher: ACM Press

Full text available: pdf(490.56 KB)
html(21.46 KB)   Additional Information: full citation, references, citings, index terms

50 Type-based publish/subscribe: Concepts and experiences

Patrick Eugster

January 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS),**
Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(822.39 KB)   Additional Information: full citation, abstract, references, index terms

A continuously increasing number of interconnected computer devices makes the requirement for programming abstractions for remote one-to-many interaction yet more stringent. The publish/subscribe paradigm has been advocated as a candidate abstraction for such one-to-many interaction at large scale. Common practices in publish/subscribe, however, include low-level abstractions which hardly leverage type safety, and provide only poor support for object encapsulation. This tends to put additional b ...

Keywords: Abstraction, Java, distribution, generics, publish/subscribe, reflection, type

51 Exokernel: an operating system architecture for application-level resource management

D. R. Engler, M. F. Kaashoek, J. O'Toole

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth**

ACM symposium on Operating systems principles SOSP '95, Volume 29
Issue 5

Publisher: ACM Press

Full text available: pdf(2.16 MB)   Additional Information: full citation, references, citings, index terms

52 Incremental analysis of real programming languages

Tim A. Wagner, Susan L. Graham
May 1997 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1997 conference on Programming language design and implementation PLDI '97,** Volume 32
Issue 5

Publisher: ACM Press

Full text available: pdf(1.95 MB)   Additional Information: full citation, abstract, references, citings, index terms

A major research goal for compilers and environments is the automatic derivation of tools from formal specifications. However, the formal model of the language is often inadequate; in particular, LR(k) grammars are unable to describe the natural syntax of many languages, such as C^{++} and Fortran, which are inherently non-deterministic. Designers of batch compilers work around such limitations by combining generated components with ad hoc techniques (for instance, performing part ...

53 Preserving and using context information in interprocess communication

Larry L. Peterson, Nick C. Buchholz, Richard D. Schlichting
August 1989 **ACM Transactions on Computer Systems (TOCS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: pdf(2.47 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

When processes in a network communicate, the messages they exchange define a partial ordering of externally visible events. While the significance of this partial order in distributed computing is well understood, it has not been made an explicit part of the communication substrate upon which distributed programs are implemented. This paper describes a new interprocess communication mechanism, called Psync, that explicitly encodes this partial ordering with each message. Th ...

54 The effects of filtered video on awareness and privacy

Michael Boyle, Christopher Edwards, Saul Greenberg
December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work CSCW '00**

Publisher: ACM Press

Full text available: pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index terms

Video-based media spaces are designed to support casual interaction between intimate collaborators. Yet transmitting video is fraught with privacy concerns. Some researchers suggest that the video stream be filtered to mask out potentially sensitive information. While a variety of filtering techniques exist, they have not been evaluated for how well they safeguard privacy. In this paper, we analyze how a blur and a pixelize video filter might impact both awareness and privacy in ...

Keywords: always-on video, awareness, casual interaction, distributed groupware, media spaces

55 A Semantic Web ontology for context-based classification and retrieval of music resources

Alfio Ferrara, Luca A. Ludovico, Stefano Montanelli, Silvana Castano, Goffredo Haus
August 2006 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(587.89 KB)   Additional Information: full citation, abstract, references, index terms

In this article, we describe the MX-Onto ontology for providing a Semantic Web compatible representation of music resources based on their context. The context representation is realized by means of an OWL ontology that describes music information and that defines rules and classes for a flexible genre classification. By flexible classification we mean that the proposed approach enables capturing the subjective interpretation of music genres by defining multiple membership relations between a mu ...

Keywords: Music classification, music retrieval, ontology-based music representation

56 General papers: Text filtering in MUC-3 and MUC-4
David D. Lewis, Richard M. Tong
June 1992 **Proceedings of the 4th conference on Message understanding MUC4 '92**
Publisher: Association for Computational Linguistics
Full text available: pdf(939.00 KB)   Additional Information: full citation, abstract, references, citings

One of the changes from the Third (MUC-3) to the Fourth (MUC-4) Message Understanding Conference was the emergence of text filtering as an explicit topic of discussion. In this paper we examine text filtering in MUC systems with three goals in mind. First, we clarify the difference between two uses of the term "text filtering" in the context of data extraction systems, and put these phenomena in the context of prior research on information retrieval (IR).

57 Incorporating contextual information in recommender systems using a multidimensional approach
Gediminas Adomavicius, Ramesh Sankaranarayanan, Shahana Sen, Alexander Tuzhilin
January 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: pdf(423.91 KB)   Additional Information: full citation, abstract, references, citings, index terms

The article presents a multidimensional (MD) approach to recommender systems that can provide recommendations based on additional contextual information besides the typical information on users and items used in most of the current recommender systems. This approach supports multiple dimensions, profiling information, and hierarchical aggregation of recommendations. The article also presents a multidimensional rating estimation method capable of selecting two-dimensional segments of ratings pert ...

Keywords: Recommender systems, collaborative filtering, context-aware recommender systems, multidimensional data models, multidimensional recommender systems, personalization, rating estimation

58 Explaining collaborative filtering recommendations
Jonathan L. Herlocker, Joseph A. Konstan, John Riedl
December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work CSCW '00**
Publisher: ACM Press
Full text available: pdf(167.40 KB)   Additional Information: full citation, abstract, references, citings, index terms

Automated collaborative filtering (ACF) systems predict a person's affinity for items or information by connecting that person's recorded interests with the recorded interests of a community of people and sharing ratings between like-minded persons. However, current recommender systems are black boxes, providing no transparency into the working of the recommendation. Explanations provide that transparency, exposing the reasoning and data behind a recommendation. In this paper, we address ex ...

Keywords: GroupLens, MoviesLens, collaborative filtering, explanations, recommender

59 Information product evaluation as asynchronous communication in context: a model
for organizational research
Lisa D. Murphy
April 1996 **Proceedings of the first ACM international conference on Digital libraries
DL '96**
Publisher: ACM Press
Full text available: pdf(1.12 MB)   Additional Information: full citation, references, index terms

60 An efficient probabilistic context-free parsing algorithm that computes prefix
probabilities
Andreas Stolcke
June 1995 **Computational Linguistics,** Volume 21 Issue 2
Publisher: MIT Press
Full text available: pdf(2.30 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

We describe an extension of Earley's parser for stochastic context-free grammars that
computes the following quantities given a stochastic context-free grammar and an input
string: a) probabilities of successive prefixes being generated by the grammar; b)
probabilities of substrings being generated by the nonterminals, including the entire string
being generated by the grammar; c) most likely (Viterbi) parse of the string; d) posterior
expected number of applications of each grammar production, ...

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L2	5	"semcard" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:15
L3	5939	"node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:16
L4	879	"semantic" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:17
L5	522	"semantic" and "hierarchy" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:18
L6	402	"semantic" and "subset" and "hierarchy" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:18
L7	4	"semantic object" and "subset" and "hierarchy" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:18

L8	338	"semantic" and "rules" and "subset" and "hierarchy" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:19
L9	115	"semantic" and "gui" and "rules" and "subset" and "hierarchy" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:20
L10	54	"semantic" and "gui" and "peer" and "rules" and "subset" and "hierarchy" and "node" and "tree" and "context" and "filter"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/02 18:20

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

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PAT. NO.	Title
1	7,162,509 Architecture for distributed computing system and automated design, deployment, and management of distributed applications
2	7,143,091 Method and apparatus for sociological data mining
3	7,080,078 Mechanism and apparatus for URI-addressable repositories of service advertisements and other content in a distributed computing environment
4	7,072,807 Architecture for distributed computing system and automated design, deployment, and management of distributed applications
5	6,973,493 Mechanism and apparatus for security of newly spawned repository spaces in a distributed computing environment
6	6,918,084 Spawning new repository spaces using information provided in advertisement schema messages
7	6,871,346 Back-end decoupled management model and management system utilizing same
8	6,868,447 Mechanism and apparatus for returning results of services in a distributed computing environment
9	6,789,077 Mechanism and apparatus for web-based searching of URI-addressable repositories in a distributed computing environment
10	6,643,650 Mechanism and apparatus for using messages to look up documents stored in spaces in a distributed computing environment

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1 Fast detection of communication patterns in distributed executions ▰
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Schema mediation for large-scale semantic data sharing ▰
Y. Halevy, G. Ives, Dan Suciu, Igor Tatarinov
March 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(267.95 KB)   Additional Information: full citation, abstract

Intuitively, data management and data integration tools should be well suited for exchanging information in a semantically meaningful way. Unfortunately, they suffer from two significant problems: they typically require a common and comprehensive schema design before they can be used to store or share information, and they are difficult to extend because schema evolution is heavyweight and may break backward compatibility. As a result, many large-scale data sharing tasks are more easily facilita ...

Keywords: Data integration, Peer data management, Schema mediation, Web and databases

3 A taxonomy of Data Grids for distributed data sharing, management, and processing ▰
Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao
June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.70 MB)   Additional Information: full citation, abstract, references, index terms

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with

high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

4 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5
Publisher: ACM Press
Full text available: pdf(1.98 MB)   Additional Information: full citation, index terms

5 Special issue: AI in engineering
D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92
Publisher: ACM Press
Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPANet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

6 Principled design of the modern Web architecture
Roy T. Fielding, Richard N. Taylor
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(335.47 KB)   Additional Information: full citation, abstract, references, citings, index terms
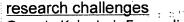
The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

Keywords: Network-based applications, REST, World Wide Web

7 Research articles and surveys: Peer-to-peer management of XML data: issues and research challenges
Georgia Koloniari, Evaggelia Pitoura
June 2005 **ACM SIGMOD Record**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(301.94 KB)   Additional Information: full citation, abstract, references, index terms

Peer-to-peer (p2p) systems are attracting increasing attention as an efficient means of sharing data among large, diverse and dynamic sets of users. The widespread use of XML as a standard for representing and exchanging data in the Internet suggests using XML for describing data shared in a p2p system. However, sharing XML data imposes new challenges in p2p systems related to supporting advanced querying beyond simple keyword-based retrieval. In this paper, we focus on data management issues fo ...

8 <u>Technical reports</u>

SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: <u>pdf(5.28 MB)</u>   Additional Information: <u>full citation</u>

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9 <u>ViSWeb—the Visual Semantic Web: unifying human and machine knowledge representations with Object-Process Methodology</u>

Dov Dori
May 2004 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 13 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: <u>pdf(1.22 MB)</u>   Additional Information: <u>full citation, abstract, index terms</u>

> The Visual Semantic Web (ViSWeb) is a new paradigm for enhancing the current Semantic Web technology. Based on Object-Process Methodology (OPM), which enables modeling of systems in a single graphic and textual model, ViSWeb provides for representation of knowledge over the Web in a unified way that caters to human perceptions while also being machine processable. The advantages of the ViSWeb approach include equivalent graphic-text knowledge representation, visual navigability, semantic sentenc ...
>
> **Keywords:** Conceptual graphs, Knowledge representation, Object-Process Methodology, Semantic Web, Visual Semantic Web

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10 <u>Computing curricula 2001</u>

September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available: <u>pdf(613.63 KB)</u>   Additional Information: <u>full citation, references, citings, index terms</u>
<u>html(2.78 KB)</u>

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11 <u>ROFL: routing on flat labels</u>

Matthew Caesar, Tyson Condie, Jayanthkumar Kannan, Karthik Lakshminarayanan, Ion Stoica
August 2006 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2006 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '06**, Volume 36 Issue 4
Publisher: ACM Press
Full text available: <u>pdf(315.75 KB)</u>   Additional Information: <u>full citation, abstract, references, index terms</u>

> It is accepted wisdom that the current Internet architecture conflates network locations and host identities, but there is no agreement on how a future architecture should distinguish the two. One could sidestep this quandary by routing directly on host identities themselves, and eliminating the need for network-layer protocols to include any mention of network location. The key to achieving this is the ability to route on flat labels. In this paper we take an initial stab at this challenge, pro ...
>
> **Keywords:** internet architecture, naming, routing

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12 <u>Level set and PDE methods for computer graphics</u>

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: <u>pdf(17.07 MB)</u>   Additional Information: <u>full citation, abstract, citings</u>

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

13 eTuner: tuning schema matching software using synthetic scenarios

Yoonkyong Lee, Mayssam Sayyadian, AnHai Doan, Arnon S. Rosenthal
October 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, index terms

Most recent schema matching systems assemble *multiple components*, each employing a particular matching technique. The domain user mustthen *tune* the system: select the right component to be executed and correctly adjust their numerous "knobs" (e.g., thresholds, formula coefficients). Tuning is skill and time intensive, but (as we show) without it the matching accuracy is significantly inferior. We describe eTuner, an approach to *automatically* tune schema matchin ...

Keywords: Compositional approach, Machine learning, Schema matching, Synthetic schemas, Tuning

14 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(63.03 MB)   Additional Information: full citation, abstract, citings

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

15 *Firmato: A novel firewall management toolkit*

Yair Bartal, Alain Mayer, Kobbi Nissim, Avishai Wool
November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: pdf(917.80 KB)   Additional Information: full citation, abstract, references, index terms, review

In recent years packet-filtering firewalls have seen some impressive technological advances (e.g., stateful inspection, transparency, performance, etc.) and wide-spread deployment. In contrast, firewall and security <i>management</i> technology is lacking. In this paper we present <i>Firmato</i>, a firewall management toolkit, with the following distinguishing properties and components: (1) an entity-relationship model containing, in a unified form, global knowledge of the sec ...

Keywords: Security policy, firewall, management, model definition language, visualization

16 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(1.82 MB)   Additional Information: full citation, abstract, references, citings, index terms

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

17 Integrating independent components with on-demand remodularization

Mira Mezini, Klaus Ostermann

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available: pdf(297.04 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper proposes language concepts that facilitate the separation of an application into independent reusable building blocks and the integration of pre-build generic software components into applications that have been developed by third party vendors. A key element of our approach are *on-demand remodularizations*, meaning that the abstractions and vocabulary of an existing code base are translated into the vocabulary understood by a set of components that are connected by a common ...

Keywords: aspect-oriented programming, collaboration-based decomposition, on-demand remodularization

18 Conference abstracts
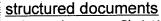
January 1977 **Proceedings of the 5th annual ACM computer science conference CSC '77**

Publisher: ACM Press

Full text available: pdf(3.14 MB)   Additional Information: full citation, abstract, index terms

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

19 Document structure and content analysis 2: Schema matching for transforming structured documents

Aida Boukottaya, Christine Vanoirbeek

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available: pdf(441.70 KB)   Additional Information: full citation, abstract, references, index terms

Structured document content reuse is the problem of restructuring and translating data structured under a source schema into an instance of a target schema. A notion closely tied with structured document reuse is that of structure transformations. Schema matching is a critical strep in structured document transformations. Manual matching is

expensive and error-prone. It is therefore important to develop techniques to automate the matching process and thus the transformation process. In this pape ...

Keywords: document structure transformations, schema matching

20 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries
Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press

Full text available: pdf(316.85 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

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21 Query Language for Semantic Web: EDUTELLA: a P2P networking infrastructure based on RDF
   Wolfgang Nejdl, Boris Wolf, Changtao Qu, Stefan Decker, Michael Sintek, Ambjörn Naeve, Mikael Nilsson, Matthias Palmér, Tore Risch
   May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
   Publisher: ACM Press

   Full text available: 🗎 pdf(331.38 KB)   Additional Information: full citation, abstract, references, citings, index terms

   Metadata for the World Wide Web is important, but metadata for Peer-to-Peer (P2P) networks is absolutely crucial. In this paper we discuss the open source project Edutella which builds upon metadata standards defined for the WWW and aims to provide an RDF-based metadata infrastructure for P2P applications, building on the recently announced JXTA Framework. We describe the goals and main services this infrastructure will provide and the architecture to connect Edutella Peers based on exchange of ...

   Keywords: e-Learning, peer-to-peer, query languages, semantic web

22 Abstraction-based intrusion detection in distributed environments
   Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang
   November 2001 **ACM Transactions on Information and System Security (TISSEC),** Volume 4 Issue 4
   Publisher: ACM Press

   Full text available: 🗎 pdf(590.61 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

   Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported in current intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack specification and event abstraction in distributed intrusion detection. The model involves three concepts: *system view, signature* ...

   Keywords: *Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection*

23 Type-based publish/subscribe: Concepts and experiences
   Patrick Eugster

January 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(822.39 KB) Additional Information: full citation, abstract, references, index terms

A continuously increasing number of interconnected computer devices makes the requirement for programming abstractions for remote one-to-many interaction yet more stringent. The publish/subscribe paradigm has been advocated as a candidate abstraction for such one-to-many interaction at large scale. Common practices in publish/subscribe, however, include low-level abstractions which hardly leverage type safety, and provide only poor support for object encapsulation. This tends to put additional b ...

Keywords: Abstraction, Java, distribution, generics, publish/subscribe, reflection, type

24 System technology: Software framework for managing heterogeneity in mobile collaborative systems
Carlos D. Correa, Ivan Marsic
November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work GROUP '03**
Publisher: ACM Press
Full text available: pdf(658.54 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Heterogeneity aspects in mobile collaborative systems, such as differences in user's interest, semantic conflicts across different domains and representations, and disparate device capabilities, cause difficulties in developing software applications. One of the key problems for collaborative applications is maintaining a consistent shared state.In this paper, we describe a framework that manages several aspects of heterogeneity to maintain consistency across the collaborating sites. We assume gr ...

Keywords: consistency maintenance, content adaptation, mobile computing, scene simplification, virtual worlds

25 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)
July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(6.19 MB) Additional Information: full citation, index terms

26 Bottom-up relational learning of pattern matching rules for information extraction
Mary Elaine Califf, Raymond J. Mooney
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(175.06 KB) Additional Information: full citation, abstract, references, citings, index terms

Information extraction is a form of shallow text processing that locates a specified set of relevant items in a natural-language document. Systems for this task require significant domain-specific knowledge and are time-consuming and difficult to build by hand, making them a good application for machine learning. We present an algorithm, RAPIER, that uses pairs of sample documents and filled templates to induce pattern-match rules that directly extract fillers for the slots in the template. RAPI ...

27 The design and implementation of hierarchical software systems with reusable components

Don Batory, Sean O'Malley
October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 1 Issue 4
Publisher: ACM Press

Full text available: pdf(3.15 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

28 Automatic generation of intelligent diagram editors

Sitt Sen Chok, Kim Marriott
September 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10
Issue 3
Publisher: ACM Press

Full text available: pdf(1.43 MB)   Additional Information: full citation, abstract, references, citings, index terms

The *intelligent diagram* is a recent metaphor for diagramming in which the underlying graphic editor parses the diagram as it is being constructed, performing error correction and collecting geometric constraints that capture the relationships between diagram components. During diagram manipulation a constraint solver uses these geometric constraints to maintain the diagram's semantics. We introduce the Penguins system. This automates the development of graphical editors that support the i ...

Keywords: Constraint multi-set grammars, constraint solving, diagram interaction, diagram parsing, intelligent diagram, pen-based computing

29 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(351.86 KB)   Additional Information: full citation, abstract, citings, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

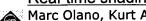## 30 MAPA: a system for inducing and visualizing hierarchy in Websites

David Durand, Paul Kahn
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98**
Publisher: ACM Press

Full text available: pdf(1.52 MB)   Additional Information: full citation, references, citings, index terms

31 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB)   Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

32 Automatic rate desynchronization of embedded reactive programs.

Alain Girault, Xavier Nicollin, Marc Pouzet

August 2006 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(758.57 KB)   Additional Information: full citation, abstract, references, index terms

Many embedded reactive programs perform computations at different rates, while still requiring the overall application to satisfy very tight temporal constraints. We propose a method to automatically distribute programs such that the obtained parts can be run at different rates, which we call *rate desynchronization*. We consider general programs whose control structure is a finite state automaton and with a DAG of actions in each state. The motivation is to take into account long-duration ...

Keywords: Embedded programs, automatic distribution, desynchronization, long-duration tasks, parallelization algorithm, reactive systems

33 Seeing, hearing, and touching: putting it all together

Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(20.64 MB)   Additional Information: full citation

34 Customizing information capture and access

Daniela Rus, Devika Subramanian

January 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a customizable architecture for software agents that capture and access information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices with task-specific interpretations. Information agents construct such indices and are configured as a network of reusable modules called structure detectors and segmenters. We illustrate our architectu ...

Keywords: information gathering, software agents, table recognition

35 Formalizing the safety of Java, the Java virtual machine, and Java card

Pieter H. Hartel, Luc Moreau
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press

Full text available: pdf(442.86 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

36 <u>NoDoSE—a tool for semi-automatically extracting structured and semistructured data from text documents</u>
Brad Adelberg
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2
Publisher: ACM Press

Full text available: pdf(1.63 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Often interesting structured or semistructured data is not in database systems but in HTML pages, text files, or on paper. The data in these formats is not usable by standard query processing engines and hence users need a way of extracting data from these sources into a DBMS or of writing wrappers around the sources. This paper describes NoDoSE, the Northwestern Document Structure Extractor, which is an interactive tool for semi-automatically determining the structure of such documents and ...

37 <u>Distributed operating systems</u>
Andrew S. Tanenbaum, Robbert Van Renesse
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4
Publisher: ACM Press

Full text available: pdf(5.49 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

38 <u>Special issue on spatial database systems: An introduction to spatial database systems</u>
Ralf Hartmut Güting
October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4
Publisher: Springer-Verlag New York, Inc.
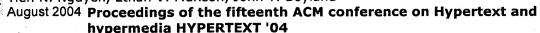Full text available: pdf(2.50 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>

We propose a definition of a spatial database system as a database system that offers spatial data types in its data model and query language, and supports spatial data types in its implementation, providing at least spatial indexing and spatial join methods. Spatial database systems offer the underlying database technology for geographic information systems and other applications. We survey data modeling, querying, data structures and algorithms, and system architecture for such systems. The em ...

39 Hypertext versioning: The molhado hypertext versioning system

Tien N. Nguyen, Ethan V. Munson, John T. Boyland

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

Publisher: ACM Press

Full text available: 🔁 pdf(943.36 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes *Molhado*, a hypertext versioning and software configuration management system that is distinguished from previous systems by its flexible product versioning and structural configuration management model. The model enables a unified versioning framework for atomic and composite software artifacts, and hypermedia structures among them in a fine-grained manner at the logical level. Hypermedia structures are managed separately from documents' contents. Molhado explicitly r ...

Keywords: hypertext versioning, software configuration management, software engineering, version control

40 Improving visualization: A graph-based interface to complex hypermedia structure visualization

Manuel Freire, Pilar Rodríguez

May 2004 **Proceedings of the working conference on Advanced visual interfaces AVI '04**

Publisher: ACM Press

Full text available: 🔁 pdf(155.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

Complex hypermedia structures can be difficult to author and maintain, especially when the usual hierarchic representation cannot capture important relations. We propose a graph-based direct manipulation interface that uses multiple focus+context techniques to avoid display clutter and information overload. A semantical fisheye lens based on hierarchical clustering allows the user to work on high-level abstracts of the structure. Navigation through the resulting graph is animated in order to avo ...

Keywords: focus+context, graph visualization, hypermedia

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**41 Exploiting perception in high-fidelity virtual environments: Exploiting perception in   ▬
high-fidelity virtual environments
Additional presentations from the 24th course are available on the citation
page**
Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
Publisher: ACM Press
Full text available: 📄 pdf(5.07 MB) ⊙ Additional Information: full citation, abstract, references
          mov(68:6 MIN)

> The objective of this course is to provide an introduction to the issues that must be
> considered when building high-fidelity 3D engaging shared virtual environments. The
> principles of human perception guide important development of algorithms and techniques
> in collaboration, graphical, auditory, and haptic rendering. We aim to show how human
> perception is exploited to achieve realism in high fidelity environments within the
> constraints of available finite computational resources.In this course w ...
>
> **Keywords:** collaborative environments, haptics, high-fidelity rendering, human-computer
> interaction, multi-user, networked applications, perception, virtual reality

42 Structured hypertext with domain semantics   ▬
Weigang Wang, Roy Rada
October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(593.99 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                                          terms

> One important facet of current hypertext research involves using knowledge-based
> techniques to develop and maintain document structures. A semantic net is one such
> technique. However, most semantic-net-based hypertext systems leave the linking
> consistency of the net to individual users. Users without guidance may accidentally
> introduce structural and relational inconsistencies in the semantic nets. The relational
> inconsistency hinders the creation of domain information models. The structura ...
>
> **Keywords:** graph theory, hypertext models, hypertext structures

43 Technical reports   ▬
SIGACT News Staff

April 1981 **ACM SIGACT News,** Volume 13 Issue 2
Publisher: ACM Press
Full text available: pdf(2.64 MB)   Additional Information: <u>full citation</u>

44 <u>Partially shared views: a scheme for communicating among groups that use different</u>
<u>type hierarchies</u>
Jintae Lee, Thomas W. Malone
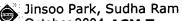January 1990 **ACM Transactions on Information Systems (TOIS),** Volume 8 Issue 1
Publisher: ACM Press

Full text available: pdf(2.17 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>, <u>review</u>

Many computer systems are based on various types of messages, forms, or other objects.
When users of such systems need to communicate with people who use different object
types, some kind of translation is necessary. In this paper, we explore the space of
general solutions to this translation problem and propose a scheme that synthesizes these
solutions. After first illustrating the problem in the Object Lens system, we identify two
partly conflicting objectives that any translation scheme ...

45 <u>Information systems interoperability: What lies beneath?</u>
Jinsoo Park, Sudha Ram
October 2004 **ACM Transactions on Information Systems (TOIS),** Volume 22 Issue 4
Publisher: ACM Press

Full text available: pdf(824.78 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>
<u>terms</u>

Interoperability is the most critical issue facing businesses that need to access information
from multiple information systems. Our objective in this research is to develop a
comprehensive framework and methodology to facilitate semantic interoperability among
distributed and heterogeneous information systems. A comprehensive framework for
managing various semantic conflicts is proposed. Our proposed framework provides a
unified view of the underlying representational and reasoning formalism ...

Keywords: Information integration, mediators, ontology, semantic conflict resolution,
semantic heterogeneity

46 <u>Natural semantics as a static program analysis framework</u>
Sabine Glesner, Wolf Zimmermann
May 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS),**
Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(649.73 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Natural semantics specifications have become mainstream in the formal specification of
programming language semantics during the last 10 years. In this article, we set up sorted
natural semantics as a specification framework which is able to express static semantic
information of programming languages declaratively in a uniform way and allows one at
the same time to generate corresponding analyses. Such static semantic information
comprises context-sensitive properties which are checked in the s ...

Keywords: Natural semantics, compiler generators, constraint solving, fixed-point
program analyses, semantic analysis, static program analysis

47 <u>Process modeling in Web applications</u>
Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu
October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM),**
Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

Keywords: Web applications, Web engineering, conceptual modeling, worfklows

48   Trust management for IPsec

May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available: pdf(321.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

IPsec is the standard suite of protocols for network-layer confidentiality and authentication of Internet traffic. The IPsec protocols, however, do not address the policies for how protected traffic should be handled at security end points. This article introduces an efficient policy management scheme for IPsec, based on the principles of trust management. A compliance check is added to the IPsec architecture that tests packet filters proposed when new security associations are created for confo ...

Keywords: Credentials, IPsec, KeyNote, network security, policy, trust management

49   The family of concurrent logic programming languages

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Publisher: ACM Press

Full text available: pdf(9.62 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

50   A holistic approach to service survivability

Angelos D. Keromytis, Janak Parekh, Philip N. Gross, Gail Kaiser, Vishal Misra, Jason Nieh, Dan Rubenstein, Sal Stolfo

October 2003 **Proceedings of the 2003 ACM workshop on Survivable and self-regenerative systems: in association with 10th ACM Conference on Computer and Communications Security SSRS '03**

Publisher: ACM Press

Full text available: pdf(1.58 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

We present SABER (Survivability Architecture: Block, Evade, React), a proposed survivability architecture that blocks, evades and reacts to a variety of attacks by using several security and survivability mechanisms in an automated and coordinated fashion. Contrary to the ad hoc manner in which contemporary survivable systems are built-using isolated, independent security mechanisms such as firewalls, intrusion detection systems and software sandboxes-SABER integrates several different techno ...

Keywords: intrusion detection, overlay networks, survivability

51 Sensor databases: Cache-and-query for wide area sensor databases

Amol Deshpande, Suman Nath, Phillip B. Gibbons, Srinivasan Seshan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(230.75 KB)   Additional Information: full citation, abstract, references, citings, index terms

Webcams, microphones, pressure gauges and other sensors provide exciting new opportunities for querying and monitoring the physical world. In this paper we focus on querying *wide area sensor databases*, containing (XML) data derived from sensors spread over tens to thousands of miles. We present the first scalable system for executing XPATH queries on such databases. The system maintains the logical view of the data as a single XML document, while physically the data is fragmented across a ...

52 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes,** Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(2.91 MB)   Additional Information: full citation, index terms

53 TINA: a natural language system for spoken language applications

Stephanie Seneff

March 1992 **Computational Linguistics,** Volume 18 Issue 1

Publisher: MIT Press

Full text available: pdf(1.86 MB)   Additional Information: full citation, abstract, references, citings
Publisher Site

A new natural language system, *TINA*, has been developed for applications involving spoken language tasks. *TINA* integrates key ideas from context free grammars, Augmented Transition Networks (ATN's), and the unification concept. *TINA* provides a seamless interface between syntactic and semantic analysis, and also produces a highly constraining probabilistic language model to improve recognition performance. An initial set of context-free rewrite rules provided by hand is first ...

54 A hierarchical access control model for video database systems

Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu

April 2003 **ACM Transactions on Information Systems (TOIS),** Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(6.27 MB)   Additional Information: full citation, abstract, references, citings, index terms

Content-based video database access control is becoming very important, but it depends on the progresses of the following related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) effective video database indexing structure; (c) the development of suitable video database models; and (d) the development of access control models tailored to the characteristics of video data. In this paper, we propose a novel approach to support multilevel acce ...

Keywords: Video database models, access control, indexing schemes

55 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR),** Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(2.31 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

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56 Automatic Discovery of Part-Whole Relations
Roxana Girju, Adriana Badulescu, Dan Moldovan
March 2006 **Computational Linguistics**, Volume 32 Issue 1
Publisher: MIT Press
Full text available: pdf(735.62 KB)   Additional Information: full citation, abstract, index terms
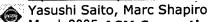
An important problem in knowledge discovery from text is the automatic extraction of semantic relations. This paper presents a supervised, semantically intensive, domain independent approach for the automatic detection of part-whole relations in text. First an algorithm is described that identifies lexico-syntactic patterns that encode part-whole relations. A difficulty is that these patterns also encode other semantic relations, and a learning method is necessary to discriminate whether or not ...

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57 Optimistic replication
Yasushi Saito, Marc Shapiro
March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1
Publisher: ACM Press
Full text available: pdf(656.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work practices and tolerate failures in low-quality communication links. The importance of such techniques is increasing as collaboration through wide-area and mobile networks becomes popular.Optimistic replication deploys algorithms not seen in tradition ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

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58 Process migration
Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press
Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

59 Staging: Assimilating MetaBorg:: embedding language tools in languages

Jonathan Riehl

October 2006 **Proceedings of the 5th international conference on Generative programming and component engineering GPCE '06**

Publisher: ACM Press

Full text available: pdf(174.54 KB)   Additional Information: full citation, abstract, references, index terms

The MetaBorg usage pattern allows concrete syntax to be associated with application programmer interfaces (API's). Once a concrete syntax is defined, library writers use the Stratego language to write transformations from the concrete syntax to API data and calls in the host language. The result is a compile time translator from the combined host and domain languages to the host language. This translator is not programmable at compile time, and little or none of the infrastructure can be leverag ...

Keywords: MetaBorg, SDF, concrete syntax macros, extensible syntax, self application, staged multi--language programming, stratego

60 Model-driven design and deployment of service-enabled web applications

Ioana Manolescu, Marco Brambilla, Stefano Ceri, Sara Comai, Piero Fraternali

August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(3.07 MB)   Additional Information: full citation, abstract, references, citings, index terms

Significant effort is currently invested in application integration, enabling business processes of different companies to interact and form complex multiparty processes. Web service standards, based on WSDL (Web Service Definition Language), have been adopted as process-to-process communication paradigms. However, the conceptual modeling of applications using Web services has not yet been addressed. Interaction with Web services is often specified at the level of the source code; thus, Web serv ...

Keywords: UML, Web application, Web services, WebML, modeling

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